

NEXTEL

Communications

OF THE MID-ATLANTIC, INC.

MORRILLS CORNER SITE PORTLAND, MAINE

ME 1509-C

NEXTEL
Communications
NEXTEL COMMUNICATIONS
OF THE MID-ATLANTIC, INC.
40 HARTWELL AVE
LEXINGTON, MA 02421-3132
Phone: (617) 839-5514
Fax: (617) 839-5916

Sebago Technics

Engineering & Planning for the Future
One Oxbow Street
Westbrook, Me 04096-1339
Tel (207) 856-0277
Fax (207) 856-2206

THIS DRAWING IS COPYRIGHTED AND IS THE SOLE PROPERTY OF NEXTEL COMMUNICATIONS. IT IS PRODUCED SOLELY FOR THE USE BY NEXTEL AND ITS AFFILIATES. REPRODUCTION OR USE OF THIS DRAWING FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN PERMISSION OF NEXTEL COMMUNICATIONS IS STRICTLY PROHIBITED.

PROJECT NO.: 01058
DRAWN BY: JMB
CHECKED BY: JRS

REV.	DATE	STATUS
1	6-22-04	ISSUED FOR CD REVIEW

APPROVALS

OWNER	DATE
NEXTEL, INC.	
NEXTEL SITE REPRESENTATIVE	
NEXTEL FIELD ENGINEER	
GENERAL CONTRACTOR	
DATE	

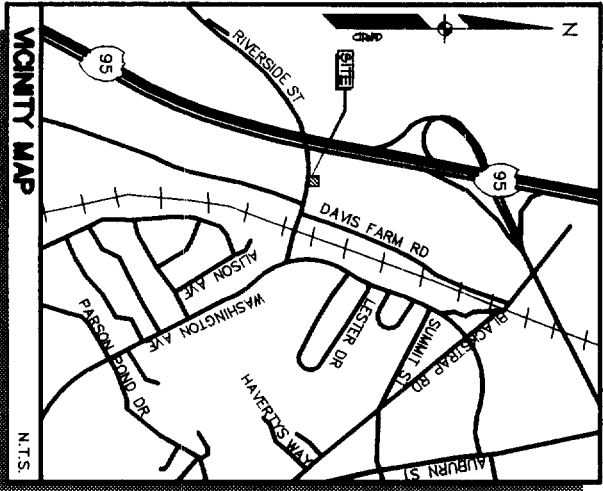
THE ABOVE NAMES REFER TO THE PERSONS WHOSE SIGNATURES AND SEALS ARE REQUIRED BY THE PROFESSIONAL ENGINEERING BOARD OF THE STATE OF MAINE FOR THE ISSUANCE OF THIS DRAWING. THE LOCAL BOARD ENGINEER AND ANY OTHER PERSONS WHOSE SIGNATURES ARE REQUIRED BY THE BOARD SHALL BE SHOWN ON THIS DRAWING.

ME 1509-C
MORRILLS CORNER SITE
1340 RIVERSIDE ST.
PORTLAND
CUMBERLAND COUNTY
MAINE

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T1

Handwritten: 10-10-04
10-10-04
10-10-04



DIRECTIONS TO SITE:
BEGINNING AT 40 HARTWELL AVE IN THE CITY OF PORTLAND, MAINE, GO NORTH TO THE INTERSECTION OF ROUTE 95 AND RIVERSIDE STREET AND PROCEED EAST ON RIVERSIDE STREET TO THE INTERSECTION OF ROUTE 95 AND INTERSTATE 95. GO NORTH ON INTERSTATE 95 THROUGH MASSACHUSETTS & NEW HAMPSHIRE TO EXIT 48 IN THE CITY OF PORTLAND, MAINE. TAKE A RIGHT ONTO RIVERSIDE STREET AND PROCEED NORTHEASTERLY FOR APPROXIMATELY 2.8 MILES TO THE TOWER SITE.

PROJECT SUMMARY

APPLICANT: NEXTEL COMMUNICATIONS OF MID-ATLANTIC INC.
40 HARTWELL AVE
LEXINGTON, MA 02421-3132
Phone: (617) 839-5514
Fax: (617) 839-5916

SITE ADDRESS: 1340 RIVERSIDE ST.
PORTLAND, ME

LANDLORD: AT&T WIRELESS
400 BLUEHILL DRIVE
WESTWOOD, MA 02090-2181

DEED REFERENCE: CUMBERLAND CO. REGISTRY OF DEEDS
DEED BOOK 9170, PAGE 215

SITE PARCEL NO.: TAX MAP 357&370A, LOT C-5

CURRENT ZONING: INDUSTRIAL

HORIZONTAL DATUM: LATITUDE: N 43°43'00.4"
LONGITUDE: W 70°18'20.6"

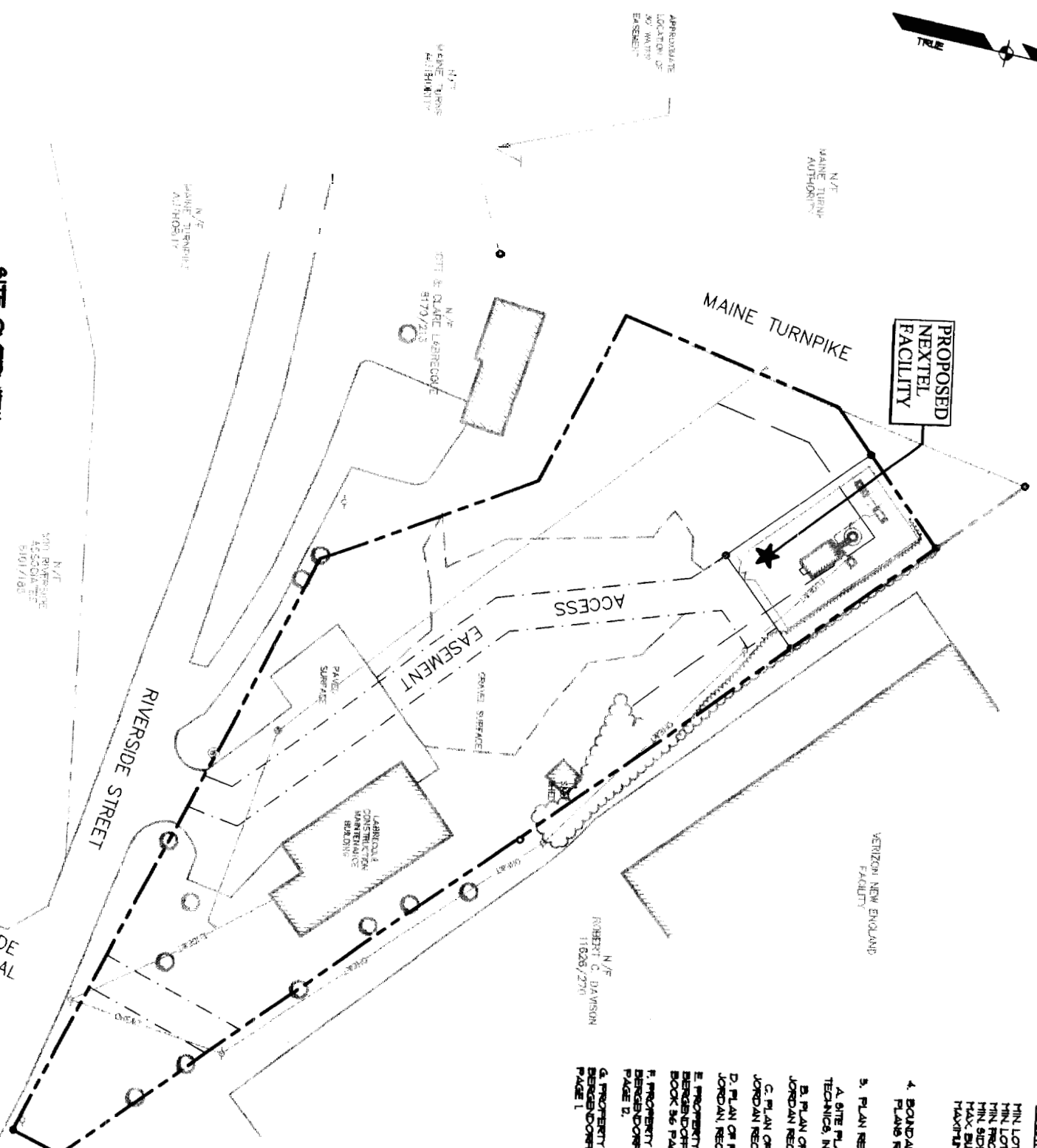
ELEVATION: 70' MSL

PROJECT DESCRIPTION:
THIS PROJECT CONSISTS OF INSTALLING A NEW 11'-6" x 20'-0" EQUIPMENT SHELTER AND A TOTAL OF 12 PANEL ANTENNAS AND 2 GPS ANTENNA AT THIS FACILITY

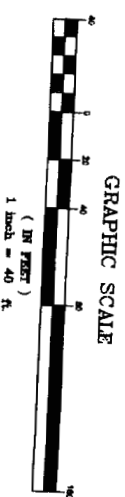
SHT. NO.	DESCRIPTION	REV. NO.	DATE
T1	COVER SHEET		
C1	SITE OVERVIEW		
C2	SITE DEVELOPMENT PLAN		
D1	DETAILS		
D2	FOUNDATION DETAILS		
D3	BUILDING & FOUNDATION DETAILS		
D4	COAX CABLE & ANTENNA DETAILS		
D5	CONSTRUCTION NOTES & EROSION CONTROL DETAILS		
G1	GROUNDING DETAILS		
G2	GROUNDING DETAILS		
E1	ELECTRICAL DETAILS		

DO NOT SCALE DRAWINGS

THE CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE NEXTEL REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK AND BE RESPONSIBLE FOR THE SAME.



SITE OVERVIEW
SCALE: 1"=40'



N/E
VENZON NEW ENGLAND
ASSOCIATES
5/10/1993

N/E
VENZON NEW ENGLAND
ASSOCIATES
5/10/1993

N/E
VENZON NEW ENGLAND
ASSOCIATES
5/10/1993

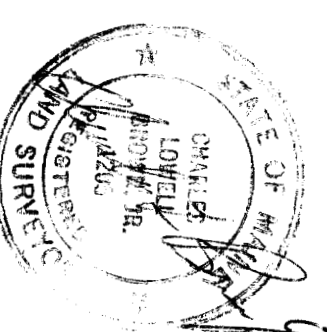
N/E
VENZON NEW ENGLAND
ASSOCIATES
5/10/1993

N/E
VENZON NEW ENGLAND
ASSOCIATES
5/10/1993

N/E
VENZON NEW ENGLAND
ASSOCIATES
5/10/1993

GENERAL NOTES:

1. THE RECORD OWNER OF THE PARCEL IS PAUL C. & ALICE A. LABRECQUE BY DEED DATED BOOK 810 PAGE 25, AND RECORDED AT THE CAMBERLAND COUNTY REGISTER'S OFFICE OF DEEDS IN 1984.
2. THE PROPERTY IS SHOWN AS LOT C-5 ON THE TOWN OF PORTLAND TAX MAP 391 & 370A AND IS LOCATED IN THE INDUSTRIAL ZONE.
3. SPACE AND BULK CRITERIA
INDUSTRIAL/HYBRID USE DISTRICT
MIN. LOT SIZE: NONE
MIN. LOT FRONTAGE: NONE
MIN. FRONT YARD: EQUAL TO BUILDING HEIGHT
MIN. SIDE & REAR YARD: 40'
MAX. BUILDING HEIGHT: 40'
MAXIMUM COVERAGE: 25%
4. BOUNDARY AND TOPOGRAPHIC INFORMATION SHOWN HEREON IS BASED UPON PLANS RECORDED IN GENERAL NOTES 3/A THRU 3/E.
5. PLAN REFERENCES:
A. SITE PLAN OF OFFICE BUILDING FOR LABRECQUE CONSTRUCTION CO., INC. BY SEBAGO TECHNICAL INC. DATED 2-22-90.
B. PLAN OF PROPOSED FOR NEW ENGLAND TELEPHONE & TELEGRAPHY CO. BY H.L. & E.C. JORDAN RECORDED IN THE C.C.R.D. IN PLAN BOOK 81 PAGE 40.
C. PLAN OF PROPOSED FOR NEW ENGLAND TELEPHONE & TELEGRAPHY CO. BY H.L. & E.C. JORDAN RECORDED IN THE C.C.R.D. IN PLAN BOOK 81 PAGE 1.
D. PLAN OF PROPERTY FOR NEW ENGLAND TELEPHONE & TELEGRAPHY CO. BY H.L. & E.C. JORDAN RECORDED IN THE C.C.R.D. IN PLAN BOOK 109 PAGE 39.
E. PROPERTY PLAN OF THE MAINE TURNPIKE SECTION 2 BY HOWARD NEEDLES TAMMEN & BERENDSON, DATED SEPTEMBER 1984, SHEET NO. D, RECORDED IN THE C.C.R.D. IN PLAN BOOK 36 PAGE 6.
F. PROPERTY PLAN OF THE MAINE TURNPIKE SECTION 2 BY HOWARD NEEDLES TAMMEN & BERENDSON, DATED MARCH 1989, SHEET NO. B, RECORDED IN THE C.C.R.D. IN PLAN BOOK 36 PAGE 1.
G. PROPERTY PLAN OF THE MAINE TURNPIKE SECTION 2 BY HOWARD NEEDLES TAMMEN & BERENDSON, DATED OCT. 5, 1983, SHEET NO. 1, RECORDED IN THE C.C.R.D. IN PLAN BOOK 41 PAGE 1.



NEXTEL
Communications
NEXTEL COMMUNICATIONS
OF THE MID-ATLANTIC, INC.
40 HARTWELL AVE
LEXINGTON, MA 02421-3132
Phone: (617) 839-5514
Fax: (617) 839-5916

Sebago Technics
Engineering & Planning for the Future
One Oxford Street
Westbrook, Me 04095-1330
Tel (207) 656-0277
Fax (207) 656-2206

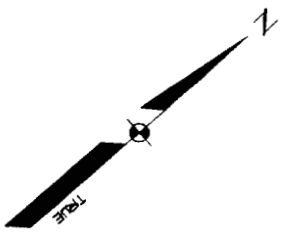
THIS DRAWING IS COPYRIGHTED AND IS THE SOLE PROPERTY OF NEXTEL COMMUNICATIONS. IT IS APPLICABLE ONLY FOR THE USE BY NEXTEL AND ITS AFFILIATES. NO PART OF THIS DRAWING IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF NEXTEL COMMUNICATIONS.

PROJECT NO.:	01058	
DRAWN BY:	JAB	
CHECKED BY:	JRS	
REV.	DATE	STATUS
1	6-22-04	ISSUED FOR GO REVIEW

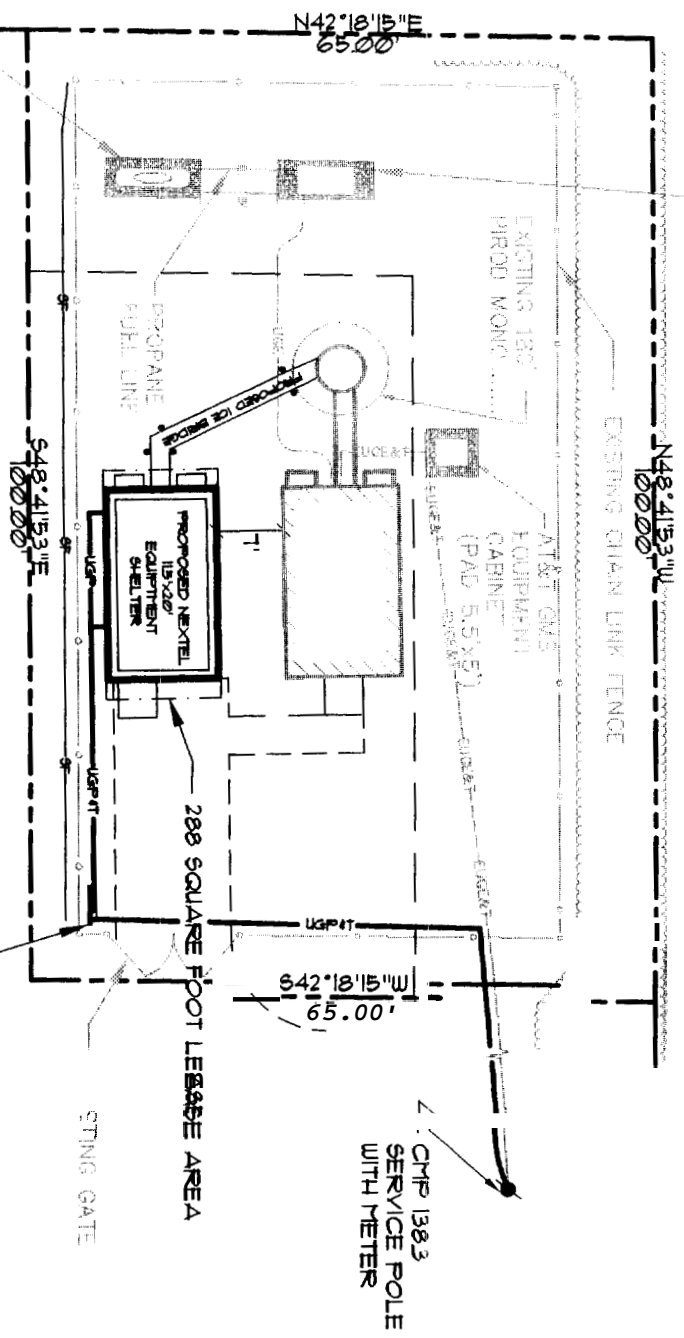
STATE OF MAINE
REGISTERED PROFESSIONAL ENGINEER
JAMES R. SEYMOUR
19884

ME 1509-C
MORRILLS CORNER SITE
1340 RIVERSIDE ST
PORTLAND
CAMBERLAND COUNTY
MAINE

SHEET TITLE
SITE OVERVIEW
SHEET NUMBER
C1



EXISTING 30-KW GENERATOR
ON 4' x 16' CONCRETE
FOOTING PAD (SEE DETAIL)



EXISTING 540-CAL. PROPANE TANK ON 4' x 10' CONCRETE EQUIPMENT PAD

NOT ALL ELECTRICAL METERS BOARD AND TELLER PANEL PER LOCAL UTILITY COMPANY REQUIREMENTS

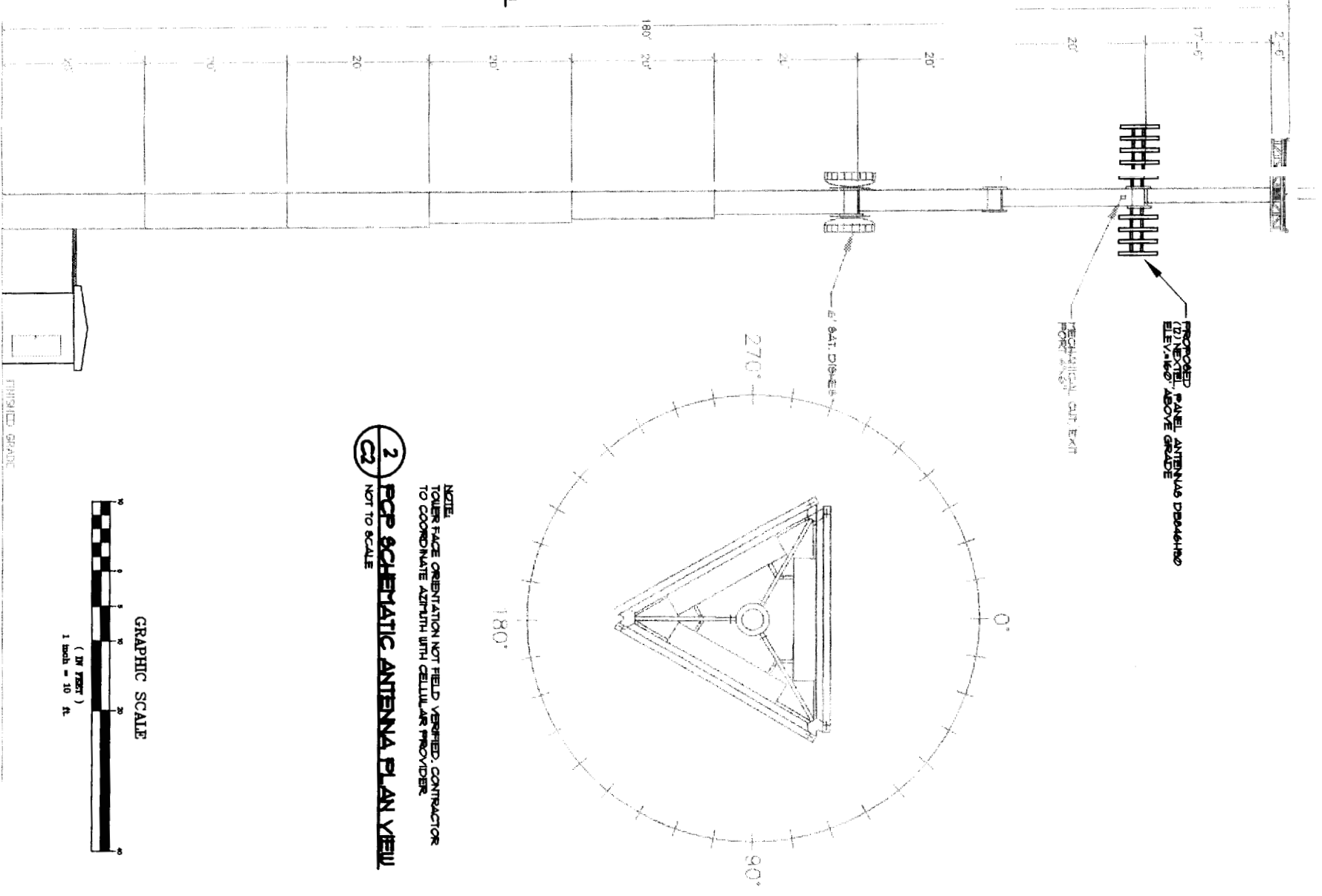
1 CMP 1383 SERVICE POLE WITH METER

STRING GATE

1 SITE PLAN
SCALE: 1"=10'

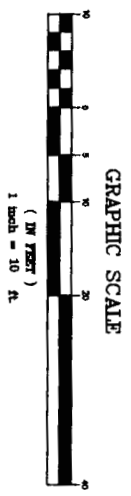
LEGEND

EXISTING	DESCRIPTION	PROPOSED
	BUILDING	
	UNDERGROUND ELECTRIC	
	UNDERGROUND TELEPHONE	
	CHAIN LINK FENCE	



2 SCHEMATIC ANTENNA PLAN VIEW
SCALE: 1"=10'
NOT TO SCALE

NOTE:
TOWER FACE ORIENTATION NOT FIELD VERIFIED. CONTRACTOR TO CORROBORATE ALIGNMENT WITH CELLULAR PROVIDER



3 SCHEMATIC 180' TOWER PROFILE
SCALE: 1"=10'



Communications
NEXTEL COMMUNICATIONS OF THE MID-ATLANTIC, INC.
40 HARTWELL AVE
LEXINGTON, MA 02421-3132
Phone: (617) 839-5514
Fax: (617) 839-5916

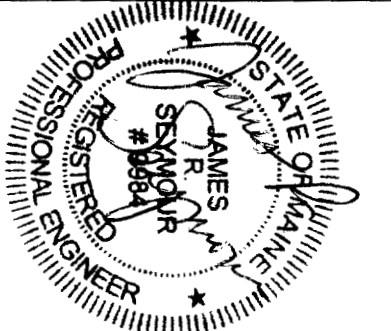


Sebago Technics
Engineering & Planning for the Future
One Chubot Street
Westbrook, Me 04098-1339
Tel (207) 858-0276
Tel (207) 858-2206

THIS DRAWING IS COPYRIGHTED AND IS THE SOLE PROPERTY OF SEBAGO TECHNICS, INC. NO PART OF THIS DRAWING IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF SEBAGO TECHNICS.

PROJECT NO.: 01098
DRAWN BY: JMB
CHECKED BY: JRS

REV	DATE	STATUS
1	6-22-04	ISSUED FOR GO REVIEW

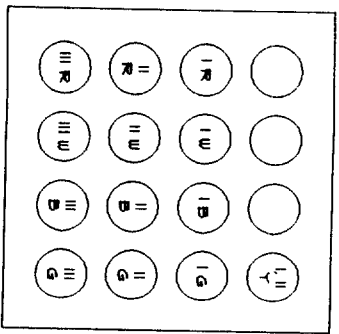


ME 1509-C
MORRILLS CORNER SITE
1340 RIVERSIDE ST.
PORTLAND
CUMBERLAND COUNTY
MAINE

SHEET TITLE
SITE DEVELOPMENT PLAN

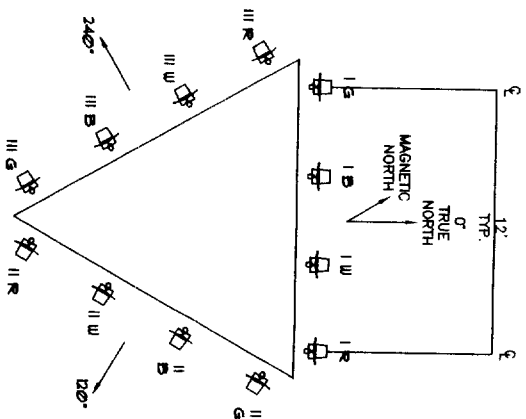
SHEET NUMBER
C2

COAX PORT ASSIGNMENTS
(VIEWED FROM INSIDE EQUIPMENT ROOM/SHELTER)



COLOR KEY

- R - RED
- W - WHITE
- B - BLUE
- G - GREEN
- Y - YELLOW (GPS)



1 TYPICAL ANTENNA ORIENTATION
AND COLOR CODING
NOT TO SCALE

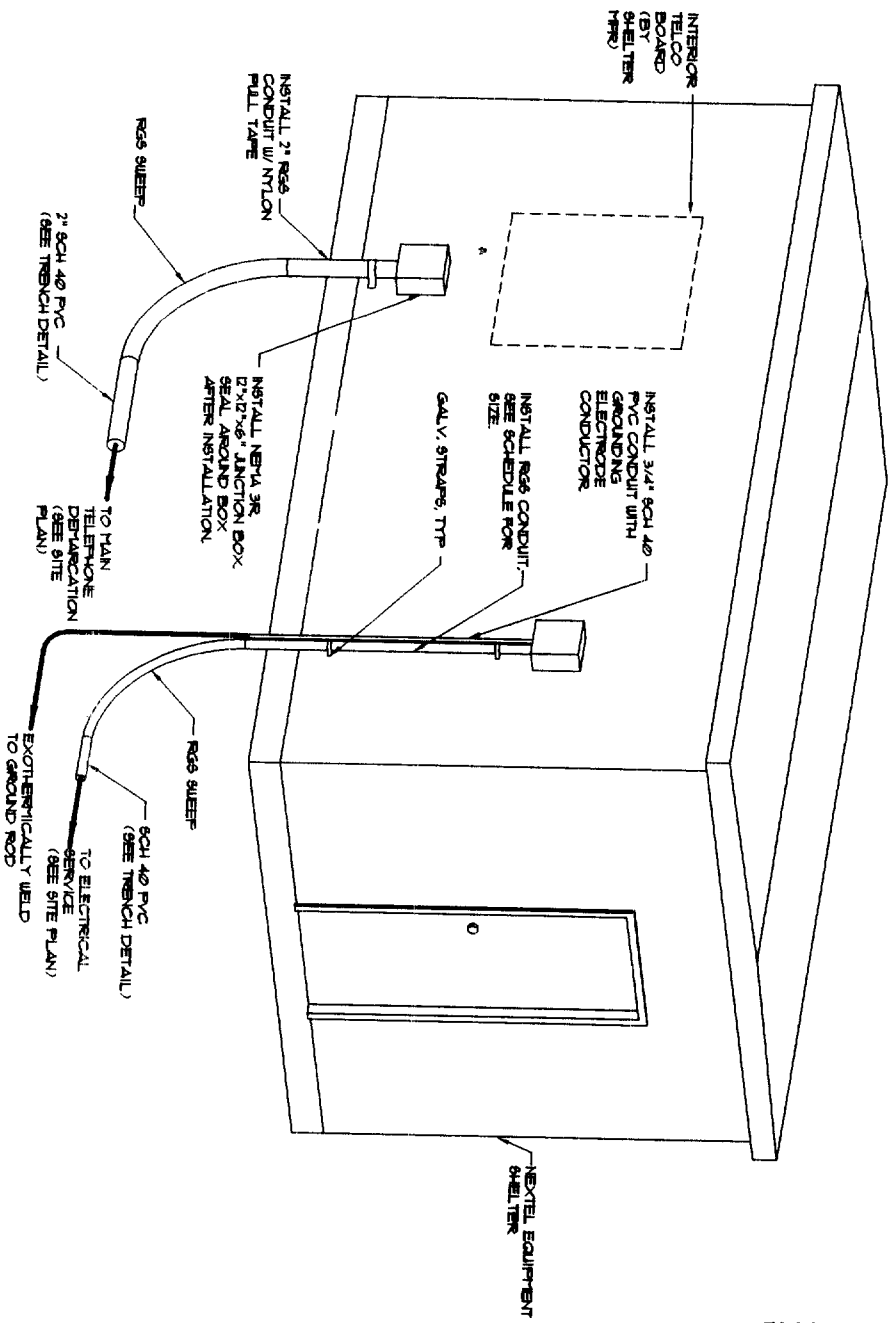
NEXTEL RF SYSTEM SCHEDULE

SECTOR	ANTENNA	ARM/UM	DOWNLIT	RAID GRN	YARD	MODEL	REED	COAX	COAX	LENGTH
			FT./ALL					SIZE IN.	TYPE	FT.
1	I G	0	0'	160'	DECIBEL	DB8444H20E-8X	BOTTOM	1 1/2"	ANDREU	209'
1	I B	0	0'	160'	DECIBEL	DB8444H20E-8X	BOTTOM	1 1/2"	ANDREU	209'
1	I W	0	0'	160'	DECIBEL	DB8444H20E-8X	BOTTOM	1 1/2"	ANDREU	209'
1	I R	0	0'	160'	DECIBEL	DB8444H20E-8X	BOTTOM	1 1/2"	ANDREU	209'
2	II G	0	0'	160'	DECIBEL	DB8444H20E-8X	BOTTOM	1 1/2"	ANDREU	209'
2	II B	0	0'	160'	DECIBEL	DB8444H20E-8X	BOTTOM	1 1/2"	ANDREU	209'
2	II W	0	0'	160'	DECIBEL	DB8444H20E-8X	BOTTOM	1 1/2"	ANDREU	209'
2	II R	0	0'	160'	DECIBEL	DB8444H20E-8X	BOTTOM	1 1/2"	ANDREU	209'
3	III G	240	0'	160'	DECIBEL	DB8444H20E-8X	BOTTOM	1 1/2"	ANDREU	209'
3	III B	240	0'	160'	DECIBEL	DB8444H20E-8X	BOTTOM	1 1/2"	ANDREU	209'
3	III W	240	0'	160'	DECIBEL	DB8444H20E-8X	BOTTOM	1 1/2"	ANDREU	209'
3	III R	240	0'	160'	DECIBEL	DB8444H20E-8X	BOTTOM	1 1/2"	ANDREU	209'
GPS 4*	I Y	240	0'	160'	DECIBEL	DB8444H20E-8X	BOTTOM	1 1/2"	ANDREU	30'
GPS 5**	II Y	RECONDARY	-	11'	-	-	-	1 1/2"	ANDREU	30'

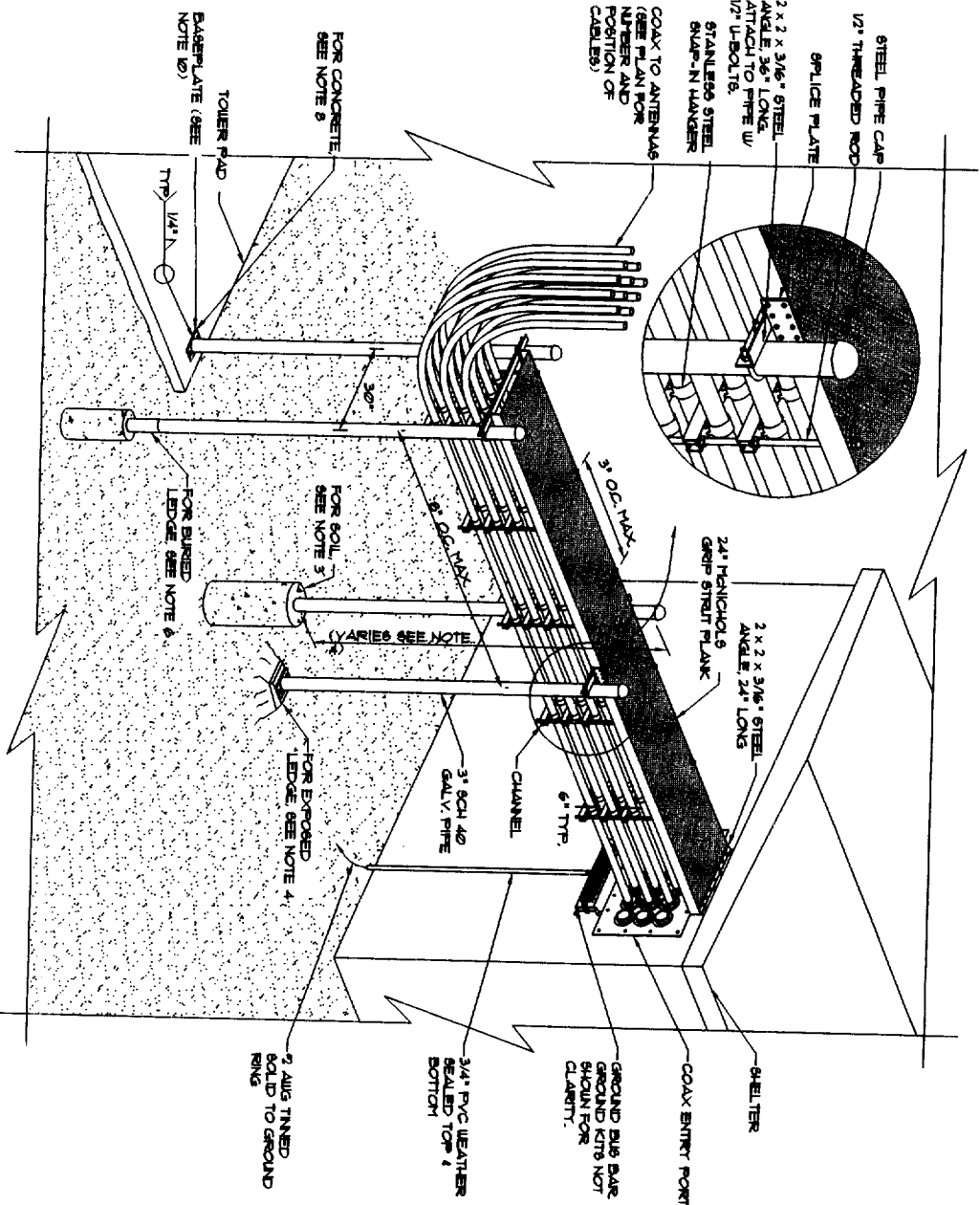
* COAX CABLE LENGTHS ARE ESTIMATES; CONTRACTOR SHALL VERIFY IN FIELD.
** MINIMUM SEPARATION BETWEEN GPS ANTENNAS IS 4'. INSTALL GPS FOR BOURNEN EXPOSURE AND REGIONAL SNOW DEPTH.

WAVEGUIDE BRIDGE NOTES

1. POSITION BRIDGE ASSEMBLY SO THAT WAVEGUIDE ENTERS SHELTER AT WAVEGUIDE PORT CENTERLINE HEIGHT ABOVE GROUND THAT VARIES ACCORDING TO SHELTER AND SITE LAYOUT.
2. COAX SHALL BE SLOPED 1/8" TO THE ROOF, AWAY FROM SHELTER.
3. FOR SOIL, USE 2" DIAM. 3'-6" DEEP PIER FILLED WITH 3000 PSI CONCRETE. INSTALL TOP OF PIER FLUSH WITH PROPOSED GRADE, AND PROVIDE DRAIN FOR DRAINAGE.
4. FOR EXPOSED LEDGE, PROVIDE GROUT LEVELING PAD. INSTALL (2) 3/8" EXPANSION ANCHORS, 6" LONG.
5. FOR CONCRETE, FASTEN BASEPLATE W/ (2) 3/8" EXPANSION ANCHORS, 6" LONG.
6. FOR BURRED LEDGE AT LEAST 3'-6" BELOW FINISH GRADE, CORE 8" DIAM. HOLE INTO LEDGE 18" DEEP. FILL AROUND PIER WITH NON-SHINK GROUT. USE COAL TAR ON BURRED LENGTH OF PIER, AND BACKFILL TO FINISH GRADE.
7. FOR PORTS ON CONCRETE OR EXPOSED LEDGE, PROVIDE 4" x 8" x 3/8" BASEPLATE WITH (2) 1/8" HOLES 6" OC.



2 UTILITY SERVICE
NOT TO SCALE



3 COAXIAL CABLE BRIDGE DETAIL
NOT TO SCALE



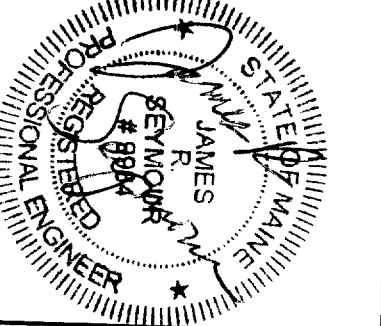
Communications
NEXTEL COMMUNICATIONS
OF THE MID-ATLANTIC, INC.
40 HARTWELL AVE
LEXINGTON, MA 02421-3132
Phone: (617) 839-5514
Fax: (617) 839-5916



Sebago Technics
Engineering & Planning for the Future
One Concord Street
Westbrook, MA 03098-1339
Tel: (603) 668-0277
Fax: (603) 668-2206

PROJECT NO.: 01058
DRAWN BY: JMS
CHECKED BY: JMS

REV.	DATE	STATUS
1	6-22-04	ISSUED FOR CD REVIEW



ME 1509-C
MORRILLS CORNER SITE
1340 RIVERSIDE ST.
PORTLAND
CUMBERLAND COUNTY
MAINE

SHEET TITLE
DETAILS

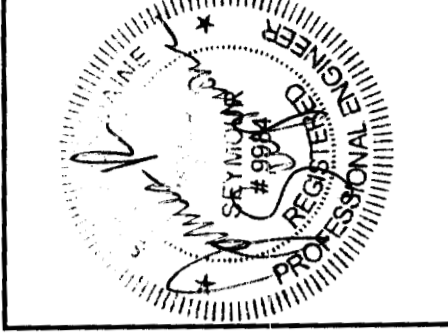
SHEET NUMBER
D1

NEXTEL
 Communications
**NEXTEL COMMUNICATIONS
 OF THE MID-ATLANTIC, INC.**
 40 HARTWELL AVE
 LEXINGTON, MA 02421-3132
 Phone: (617) 839-5514
 Fax: (617) 839-5916

Sebago Technics
 Engineering & Planning for the Future
 One Chobot Street
 Westbrook, Me 04096-1339
 Tel (207) 856-0277
 Fax (207) 856-2208

THIS DRAWING IS COPYRIGHTED AND IS THE SOLE PROPERTY OF NEXTEL COMMUNICATIONS, INC. ANY REPRODUCTION OR TRANSMISSION OF THIS DRAWING WITHOUT THE WRITTEN PERMISSION OF NEXTEL COMMUNICATIONS, INC. IS PROHIBITED.

PROJECT NO.:	01058		
DRAWN BY:	JNB		
CHECKED BY:	JRS		
REV.	DATE	ISSUED FOR	STATUS
1	6-22-04		

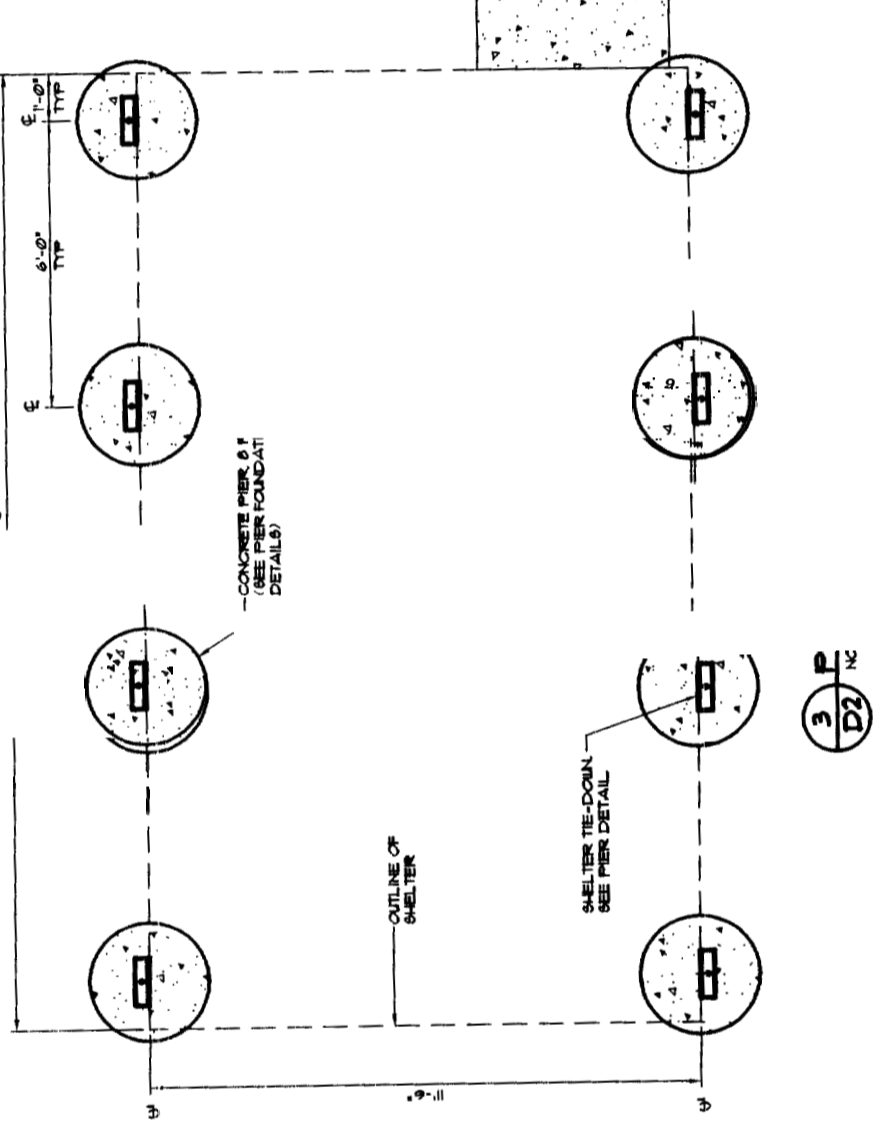


ME 1509-C
MORRILLS CORNER SITE
 1340 RIVERSIDE ST.
 PORTLAND
 CUMBERLAND COUNTY
 MAINE

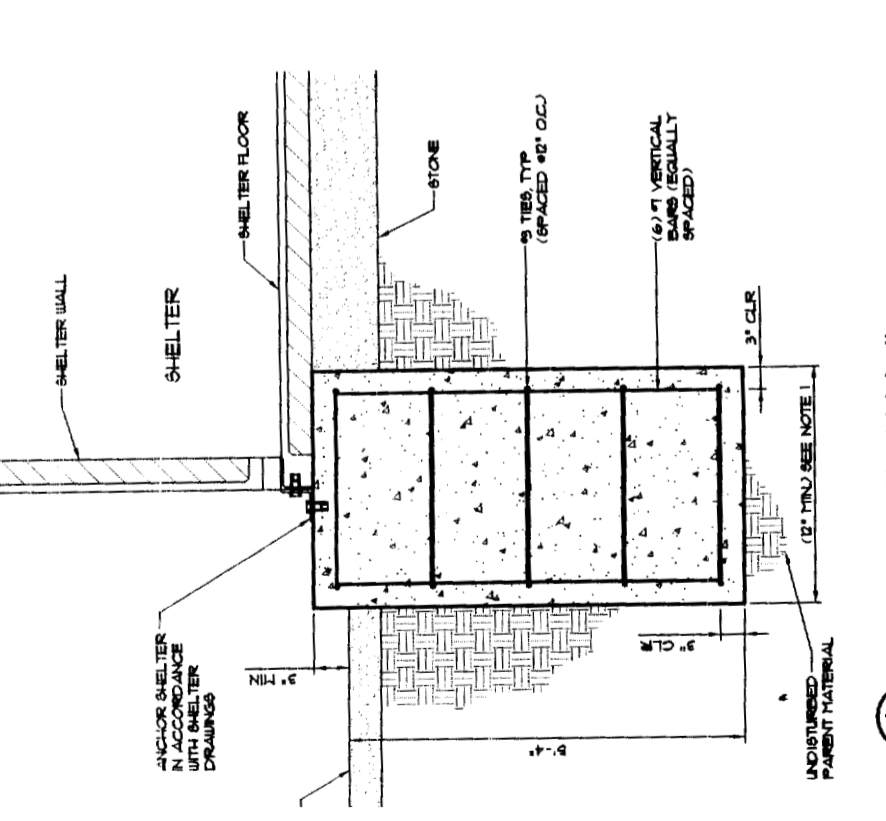
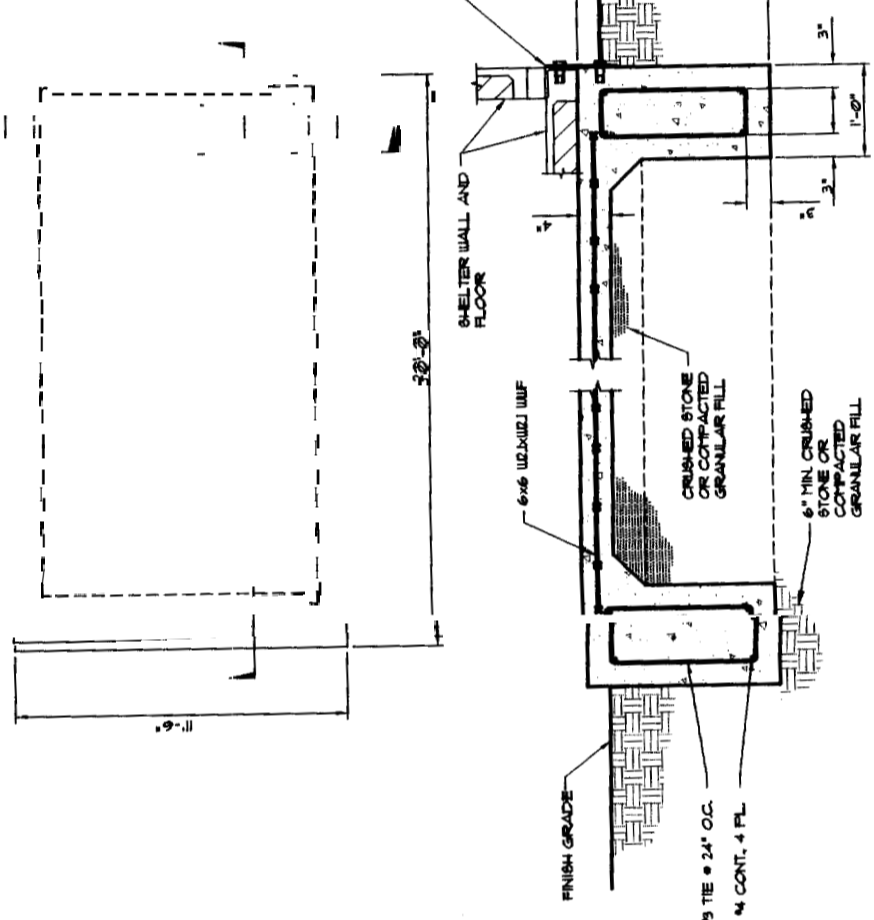
SHEET TITLE
FOUNDATION DETAILS

SHEET NUMBER
D2

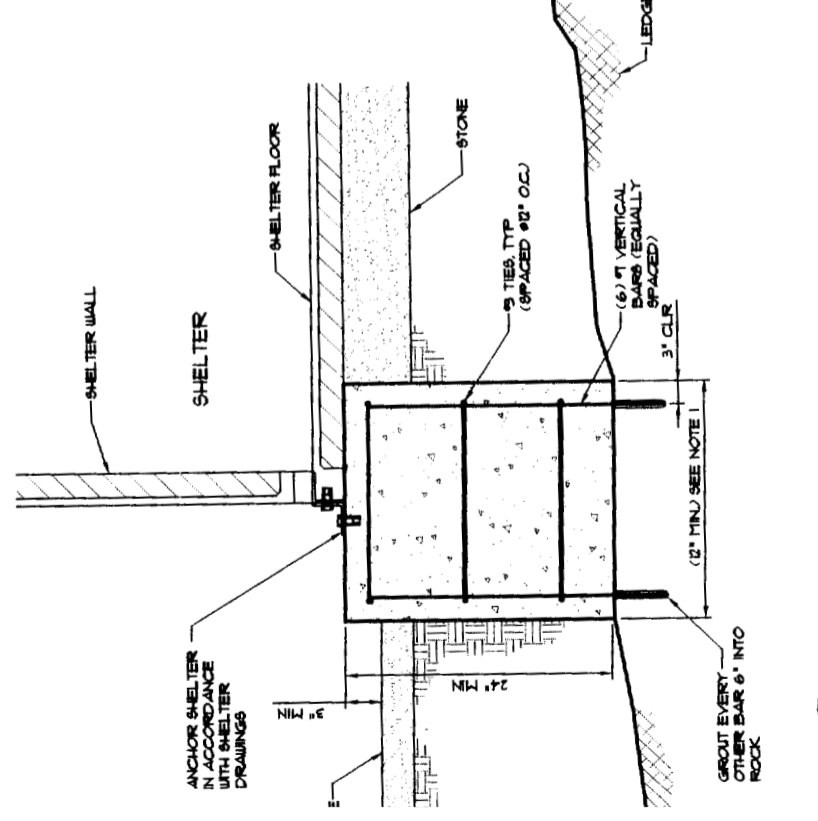
SHELTER FOUNDATION NOTES
 1. DESIGN ENGINEER SHALL VERIFY PIER DIAMETER, DEPTH AND CONFIGURATION IN ACCORDANCE WITH LOCAL CODES, SOIL CONDITIONS AND SHELTER MANUFACTURER SPECIFICATIONS.
 2. IF SOUND ROCK IS ENCOUNTERED AT LESS THAN THE SPECIFIED FOUNDATION DEPTH, USE ALTERNATE FOUNDATION.



SHELTER FOUNDATION NOTES
 1. VERIFY DIMENSIONS WITH SHELTER MANUFACTURER.
 2. REMOVE ALL LOOSE INORGANIC OR UNSUITABLE SOIL TO UNDISTURBED BEARING STRATA BY ALLOWABLE SOIL BEARING CAPACITY OF 2,000 PSF.
 3. CONCRETE STRENGTH SHALL BE 3,000 PSI, MIN.
 4. SLAB SHALL BE LEVEL 1/4".
 5. SHELTER TIE DOWN BY SHELTER MANUFACTURER.



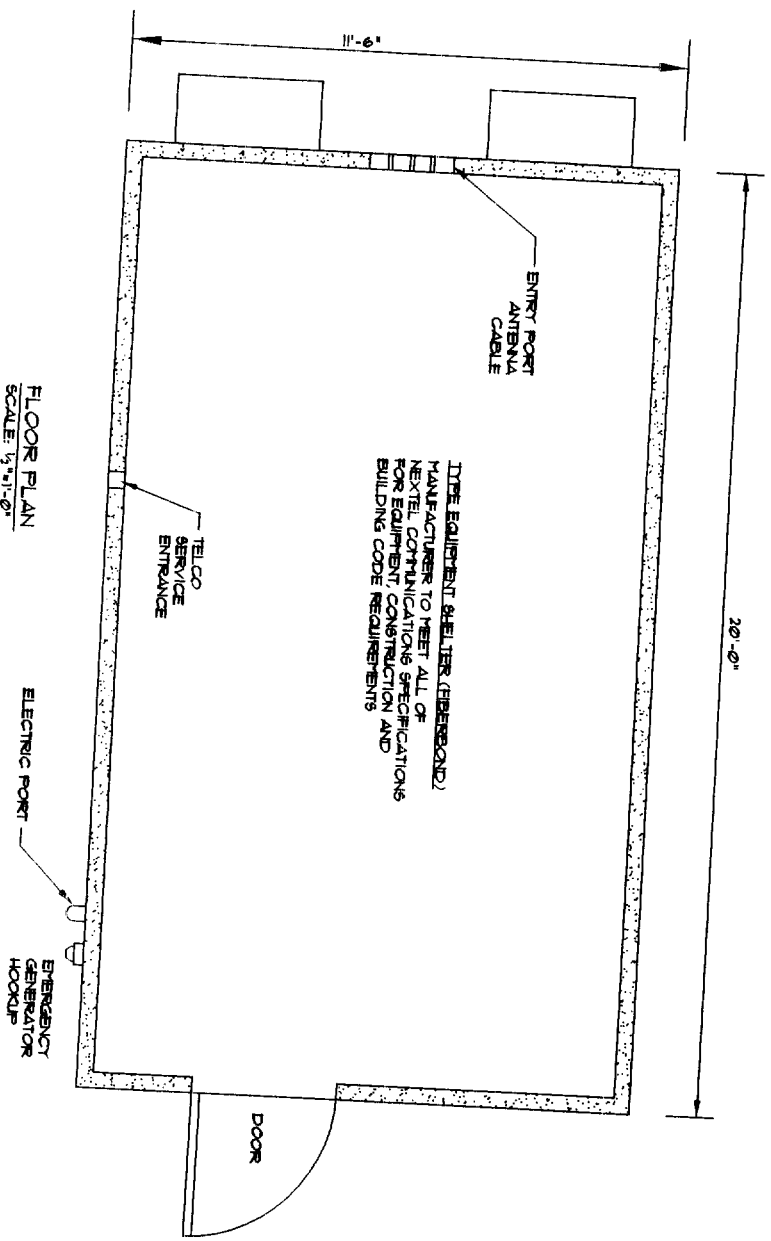
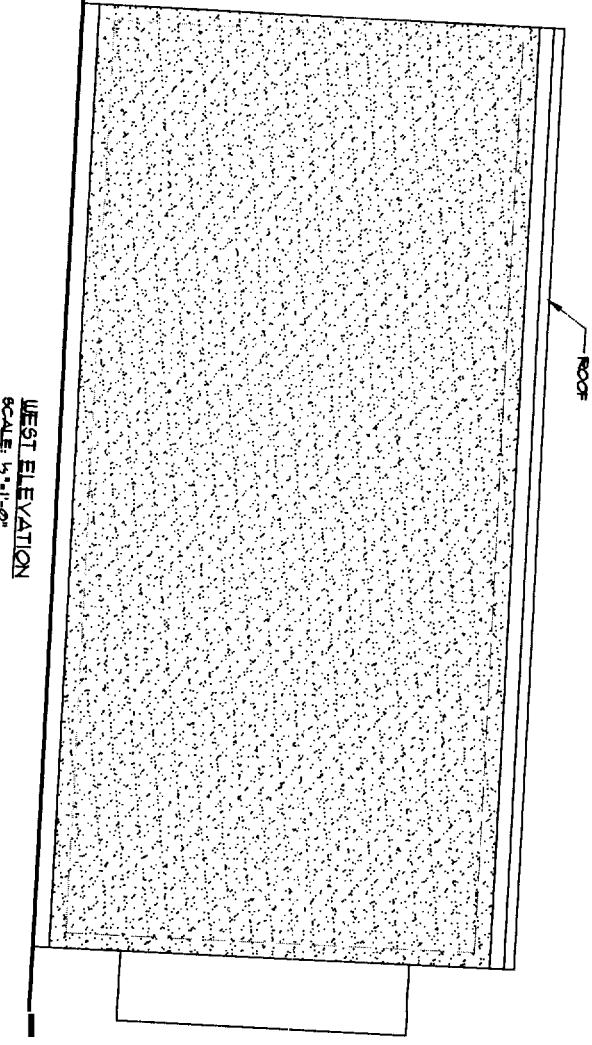
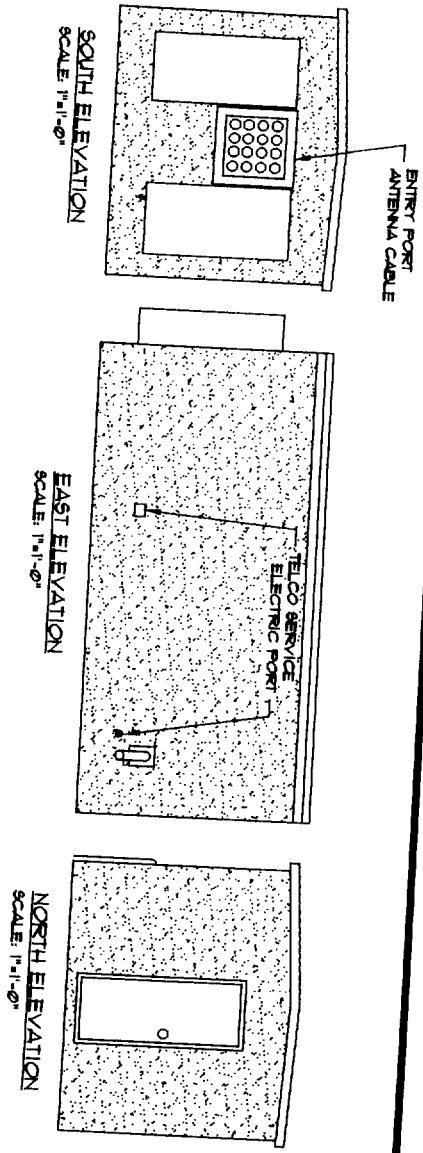
1 PIER FOUNDATION IN SOIL
 NOT TO SCALE
 1. FINAL PIER DIAMETER TO BE FIELD DETERMINED BASED ON FIELD SOIL CONDITIONS AND BEARING CAPACITY.



2 PIER FOUNDATION IN ROCK
 NOT TO SCALE

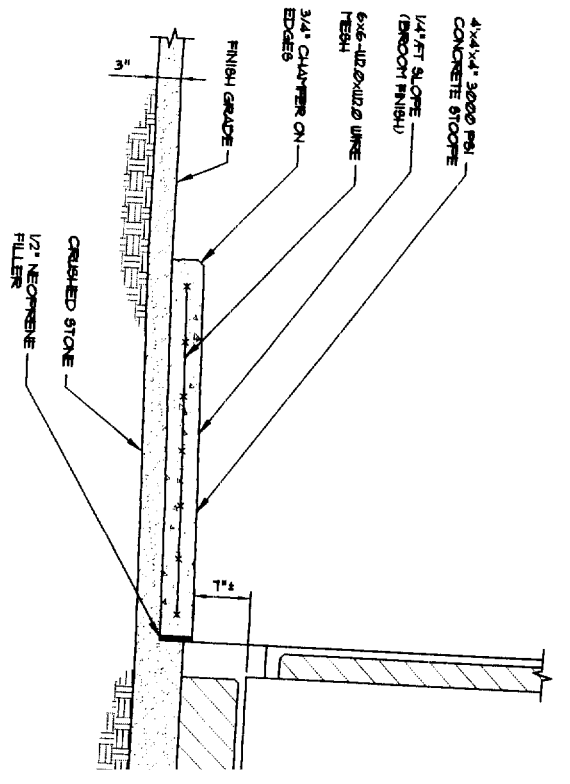
4 HANCHED SLAB SHELTER PLAN
 NOT TO SCALE

2 PIER FOUNDATION IN ROCK
 NOT TO SCALE



1 PREFABRICATED EQUIPMENT BUILDING
AS SHOWN
D3

- BUILDING FOUNDATION NOTES**
1. ALL CONCRETE SHALL BE MADE FROM TYPE 2 CEMENT AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. MAXIMUM SIZE OF AGGREGATE SHALL NOT EXCEED 3/4". SLUMP TO BE 2" TO 3" PER CUB. SPECIFICATIONS.
 2. ALL CONCRETE SHALL BE CONSOLIDATED BY INTERNAL VIBRATION IN ACCORDANCE WITH A.C.I. STANDARDS 309-72. RECOMMENDED PRACTICE FOR CONSOLIDATION OF CONCRETE SHALL BE IN ACCORDANCE WITH A.C.I. 309 AND 308.
 3. ALL COLD WEATHER / HOT WEATHER CONCRETE PLACEMENT SHALL BE IN ACCORDANCE WITH A.C.I. 309 AND 308.
 4. IF SLABS ARE USED, COVER WITH 4 MIL POLY OR SPRAY WITH CURING COMPOUND NOT CONTAINING WAX OIL OR VARIOLIN. SUBMIT TEST DATA TO CONSTRUCTION ENGINEER FOR REVIEW AND APPROVAL.
 5. FOR LEDGE / BEDDING SHALL BE USED. REBAR SHALL BE USED. REBAR SHALL BE USED. THE REBAR SHALL BE USED. THE REBAR SHALL BE USED.
 6. UNDER FOUNDATION REMOVED TO 4 D TO A MINIMUM OF 1 BARS ASHTD 408.1
 7. ALL NEW SOIL UNDER TO A MINIMUM OF 1 BARS ASHTD 408.1
 8. ALL REINFORCING BARS ASHTD 408.1
 9. ALL DETAILING FOR SHALL BE IN ACCORDANCE WITH A.C.I. 309 AND 308.
 10. FOR LEDGE / BEDDING SHALL BE USED. REBAR SHALL BE USED. REBAR SHALL BE USED. THE REBAR SHALL BE USED.



2 CONCRETE STOOP
NOT TO SCALE
D3